MITSUBISHI HEAVY INDUSTRIES AIR CONDITIONING EUROPE

FDU140VSXVH

14.0 (5.0 ~ 16.0)

Indoor Unit : FDU140VH

Outdoor Unit : FDC140VSX

R410A

Specifications

Indoor unit				FDU140VH
Outdoor unit				FDC140VSX
Power source				3 Phase 380-415V, 50Hz / 380V, 60Hz
Nominal cooling capacity (Min~Max)			kW	14.0 (5.0 ~ 16.0)
Nominal heating capacity (Min~Max)			kW	16.0 (4.0 ~ 20.0)
Power consumption		Cooling/Heating	kW	4.28 / 4.42
EER/COP		Cooling/Heating		3.27 / 3.62
Inrush current			A	5
Max. running current			A	19
Sound power level*1	Indoor *3	Cooling/Heating	dB(A)	70 / 70
	Outdoor	Cooling/Heating		72 / 72
Sound pressure level*1	Indoor *3	Cooling (Hi/Me/Lo/Ulo)		47 / 40 / 35 / 30
		Heating (Hi/Me/Lo/Ulo)		47 / 40 / 35 / 30
	Outdoor	Cooling/Heating		49 / 52
Air flow	Indoor *3	Cooling (Hi/Me/Lo/Ulo)	m^3/min	48 / 35 / 28 / 22
		Heating (Hi/Me/Lo/Ulo)		48 / 35 / 28 / 22
	Outdoor	Cooling/Heating		100 / 100
Available external static pressure			Pa	Standard:60 Max:200
Exterior Dimensions	Indoor	Height x Width x Depth	mm	280 x 1,370 x 740
	Outdoor			1,300 x 970 x 370
Net weight	Indoor / Outdoor		kg	54 / 105
Refrigerant		Type/GWP		R410A/2088
Refrigerant piping size		Liquid/Gas	mm (ø inch)	9.52(3/8") / 15.88(5/8")
Refrigerant line (one way) length			m	Max.100
Vertical height differences		Outdoor is higher/lower	m	Max.30 / Max.15
Outdoor operating temperature range		Cooling*2	°C	-15~43
		Heating		-20~20
Air filter quantity				Procure locally
Remote control (option)				wired:RC-EX3A, RC-E5, RCH-E3 wireless:RCN-KIT4-E2
SEER				5.36
SCOP (Average climate)				3.88

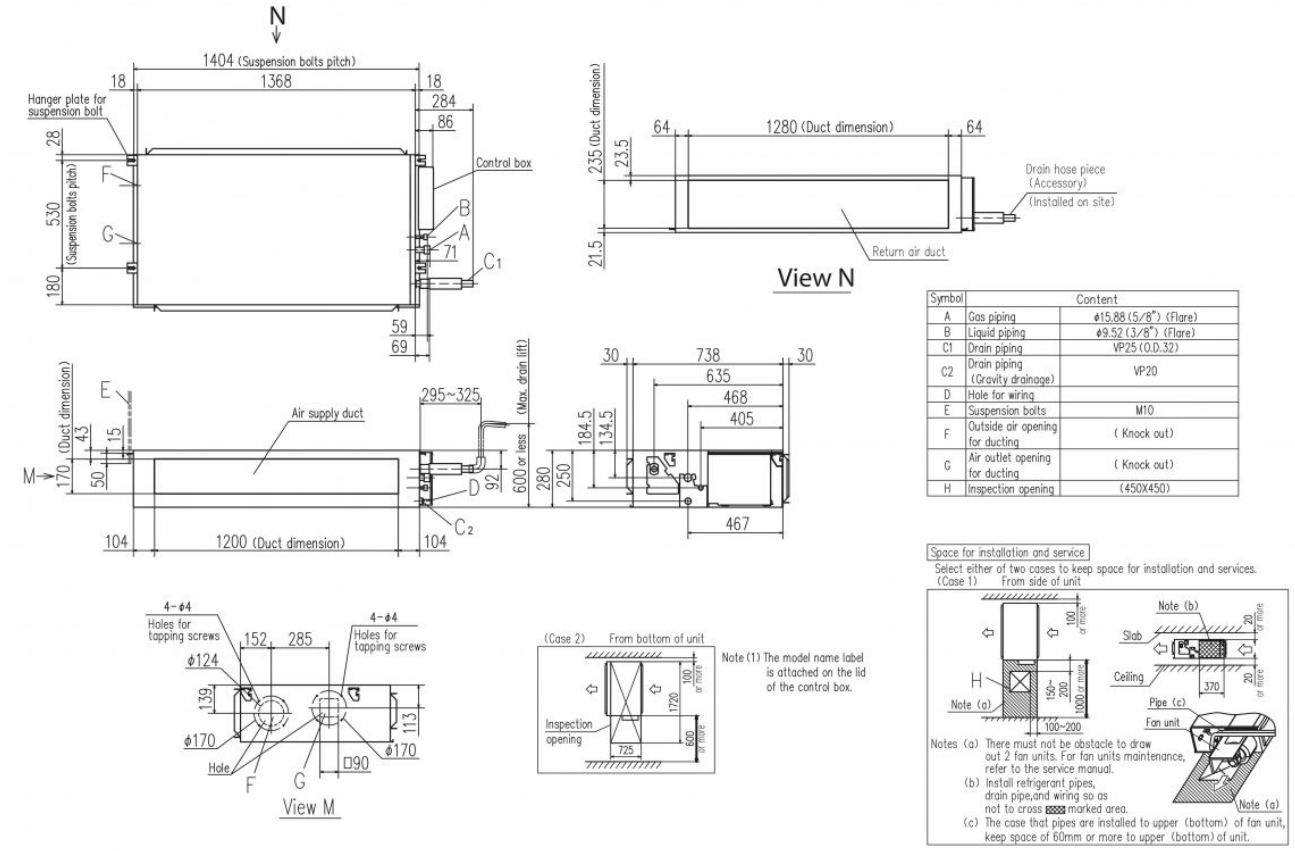
The data is measured under the following conditions (ISO-T1).
Cooling: Indoor temp. of 27°CDB, 19°CWB, and outdoor temp. of 35°CDB. Heating: Indoor temp. of 20°CDB, and outdoor temp. of 7°CDB, 6°CWB.

1. : Indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
2. : External static pressure is changeable to be set by the remote control. MAX external static pressure is "High static pressure" setting. The values of sound pressure level become 5dB(A) higher at external static pressure of 200Pa
3. : If a cooling operation is conducted when the outdoor air temperature is –5°C or lower, the outdoor unit should be installed at a place where it is not influenced by natural wind. If wind blows, the low pressure will drop and compressor frequency will increase, this will cause the capacity to drop and may cause the unit to break down.

Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.

Schematics

Models FDU100VH,125VH,140VH



Symbol	Content	
A	Gas piping	ϕ15.88 (5/8") (Flare)
B	Liquid piping	ϕ9.52 (3/8") (Flare)
C1	Drain piping	VP25 (O.D.32)
C2	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
E	Suspension bolts	M10
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection opening	(450X450)

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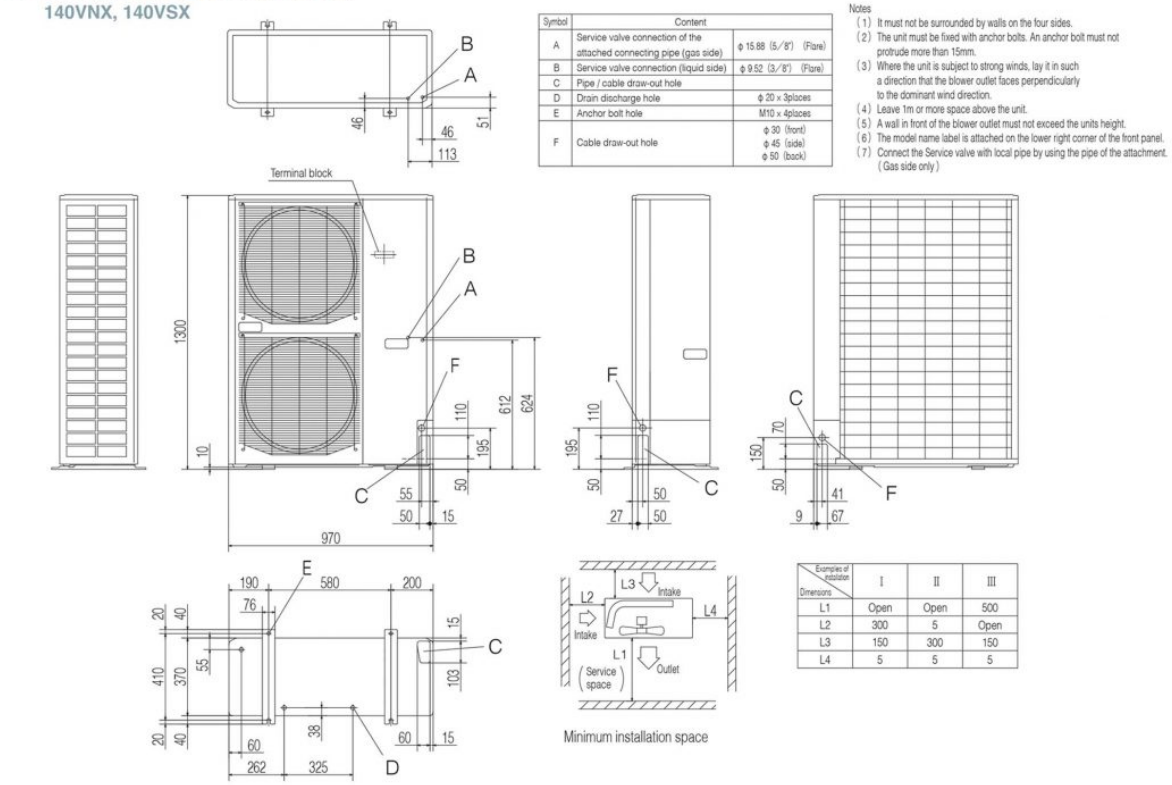
FDC100VNX, 100VSX, 125VNX, 125VSX, 140VNX, 140VSX



Symbol	Content	
A	Service valve connection of the attached connecting pipe (gas side)	ϕ 15.88 (5/8") (Flare)
B	Service valve connection (liquid side)	ϕ 9.52 (3/8") (Flare)
C	Pipe / cable draw-out hole	
D	Drain discharge hole	ϕ 20 × 3places
E	Anchor bolt hole	M10 × 4places
F	Cable draw-out hole	ϕ 30 (front) ϕ 45 (side) ϕ 50 (back)

Notes

(1) It must not be surrounded by walls on the four sides.
(2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
(3) Where the unit is subject to strong winds, lay it in such a direction that the blower outlet faces perpendicularly to the dominant wind direction.
(4) Leave 1m or more space above the unit.
(5) A wall in front of the blower outlet must not exceed the units height.
(6) The model name label is attached on the lower right corner of the front panel.
(7) Connect the Service valve with local pipe by using the pipe of the attachment. (Gas side only)

Minimum installation space

Examples of installation / Dimensions	I	II	III
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

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